

DART SERVICE INSTRUCTION

**TO AMEND MANUFACTURING PROCESS PROCEDURE MPP-169 REV. E
AND INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA505-1 REV. 4
OR LATER APPROVED REVISIONS**

REF. TCCA STC: SH18-9
REF. FAA STC: SR04133NY
REF. EASA STC: 10067422
REF. CAAC STC: VSTC0993
REF. MEXICO STC: 1A-623/2019
REF. JCAB STC: STC-440-OSA

1.0 PURPOSE

The purpose of this DART Service Instruction (DSI) is to provide DART Aerospace Repair and Overhaul facilities with instructions to replace a 645.5902-270-000-17 Valve Assembly with a 655.3902-270-000-17 Valve Assembly, when performing an overhaul of a 651.6501 Reservoir Assembly.

2.0 OVERHAUL PROCEDURE

One of the following two options may be chosen during the next overhaul of a 651.6501 Reservoir Assembly.

2.1 OPTION 1: REPLACE VALVE ASSEMBLY

- (a) Remove the currently installed 645.5902-270-000-17 Valve Assembly and replace it with a new 655.3902-270-000-17 Valve Assembly.
- (b) Continue overhaul of the 651.6501 Reservoir Assembly per 651.6500 Rev. D or later approved revisions.

2.2 OPTION 2: REWORK VALVE ASSEMBLY

- (a) Disassemble the currently installed 645.5902-270-000-017 Valve Assembly per MPP-169. During the disassembly, retain the components listed in Table 1 and discard the remaining components.
- (b) Clean the retained components per MPP-241.
- (c) Refer to Section 3.0 of this DSI for the components required to rework the 645.5902-270-000-17 Valve Assembly to a 655.3902-270-000-17 Valve Assembly.
- (d) Identify the 655.3810 Valve Body with a new P/N and S/N per MPP-241. Additional identification may be required per MPP-120.
- (e) Assemble the 655.3902-270-000-17 Valve Assembly per MPP-241.
- (f) Continue overhaul of the 651.6501 Reservoir Assembly per 651.6500 Rev. D or later approved revisions.

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: 
D. SHEPHERD (DE #02)

DATE: 23.05.05
CERT. NO.: SH18-9
ISSUE NO.: 1

| | | | |
|------------|----------------------------|---|--------------|
| A | NEW ISSUE (REASON ECR 529) | KPT | 23.05.05 |
| REV. | DESCRIPTION | BY | DATE |
| DESIGN | KPT | DART AEROSPACE HAWKESBURY, ONTARIO, CANADA | |
| DRAWN | KPT | | |
| CHECKED | SAD | DRAWING NO. | REV. A |
| MFG. APPR. | N/A | DSI 9904 | SHEET 1 OF 2 |
| APPROVED | IT | TITLE | SCALE |
| DE APPR. | DS | RESERVOIR ASSEMBLY OVERHAUL | NTS |
| DATE | 23.05.05 | COPYRIGHT © 2023 BY DART AEROSPACE THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE | |

Table 1: Components to Retain

| QTY | P/N | DESCRIPTION |
|-----|----------|------------------------|
| 1 | 601.2413 | SAFETY DISC RETAINER |
| 1 | 645.6510 | PUNCTURE DISC RETAINER |
| 1 | 645.6810 | PULL ROD HOUSING |
| 1 | 645.6910 | PULL ROD |
| 1 | 645.7710 | SHROUD |
| 1 | 647.2910 | SPRING CAP |

3.0 PARTS LIST

The following components are required if reworking a 645.5902-270-000-17 Valve Assembly to a 655.3902-270-000-17 Valve Assembly per Section 2.2 of this DSI.

| QTY -011 | P/N | DESCRIPTION |
|-------------|--------------|--------------------------------------|
| X | DSI 9904-011 | VALVE REWORK KIT |
| 1 | 655.3999 | 655.3900 VALVE ASSEMBLY OVERHAUL KIT |
| 1 | 601.3739 | GAUGE |
| 1 | 645.6210 | BAYONET HOUSING |
| 1 | 650.6211 | BANJO -6 |
| 1 | 654.6410 | FILL PORT |
| 1 | 654.6411 | PLUG FITTING |
| 1 | 654.6412 | FILL PISTON FITTING |
| 1 | 655.2710 | SAFETY DISC ADAPTER |
| 1 | 655.2711 | FILL PORT ADAPTER |
| 1 | 655.2712 | GAUGE ADAPTER |
| 1 | 655.2713 | THERMAL ADAPTER |
| 1 | 655.3601 | SWIVEL FITTING ASSEMBLY |
| 1 | 655.3810 | VALVE BODY |

| | | |
|------------|----------|--|
| DESIGN | KPT | DART AEROSPACE HAWKESBURY, ONTARIO, CANADA |
| DRAWN | KPT | |
| CHECKED | SAD | DRAWING NO. REV. A |
| MFG. APPR. | N/A | DSI 9904 SHEET 2 OF 2 |
| APPROVED | IT | TITLE SCALE |
| DE APPR. | DS | RESERVOIR ASSEMBLY OVERHAUL NTS |
| DATE | 23.05.05 | COPYRIGHT © 2023 BY DART AEROSPACE <small>THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE</small> |